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Summary Statistics for the Data Collected During the 2008 Portland Harbor/Presumpscot River Nitrogen Monitoring Project

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Surface water samples were collected weekly at four sites from May through October, 2008. Water temperature, salinity, dissolved oxygen, and pH were measured by YSI data sonde. A secchi disk was used to measure water clarity. Chlorophyll and phaeophytin were measured through extraction in acetone. Filtered water samples were collected and sent to the University of Maine School of Marine Science for analysis of phosphate, silicate, nitrite + nitrate, and ammonium. Unfiltered water samples were collected and sent to the Chesapeake Bay Laboratory for analysis of total nitrogen. Sampling was conducted on an outgoing tide.

The four sites included one at the mouth of the Presumpscot River (PRV), one at the Southern Maine Community College Pier (SMC), one at Knightville Landing (KVL), and one at the mouth of Anthoine Creek (ANT). See Figure 1 for locations. There were 24 sampling events at each site resulting in the collection of 288 water samples and a total of 1,152 measurements.

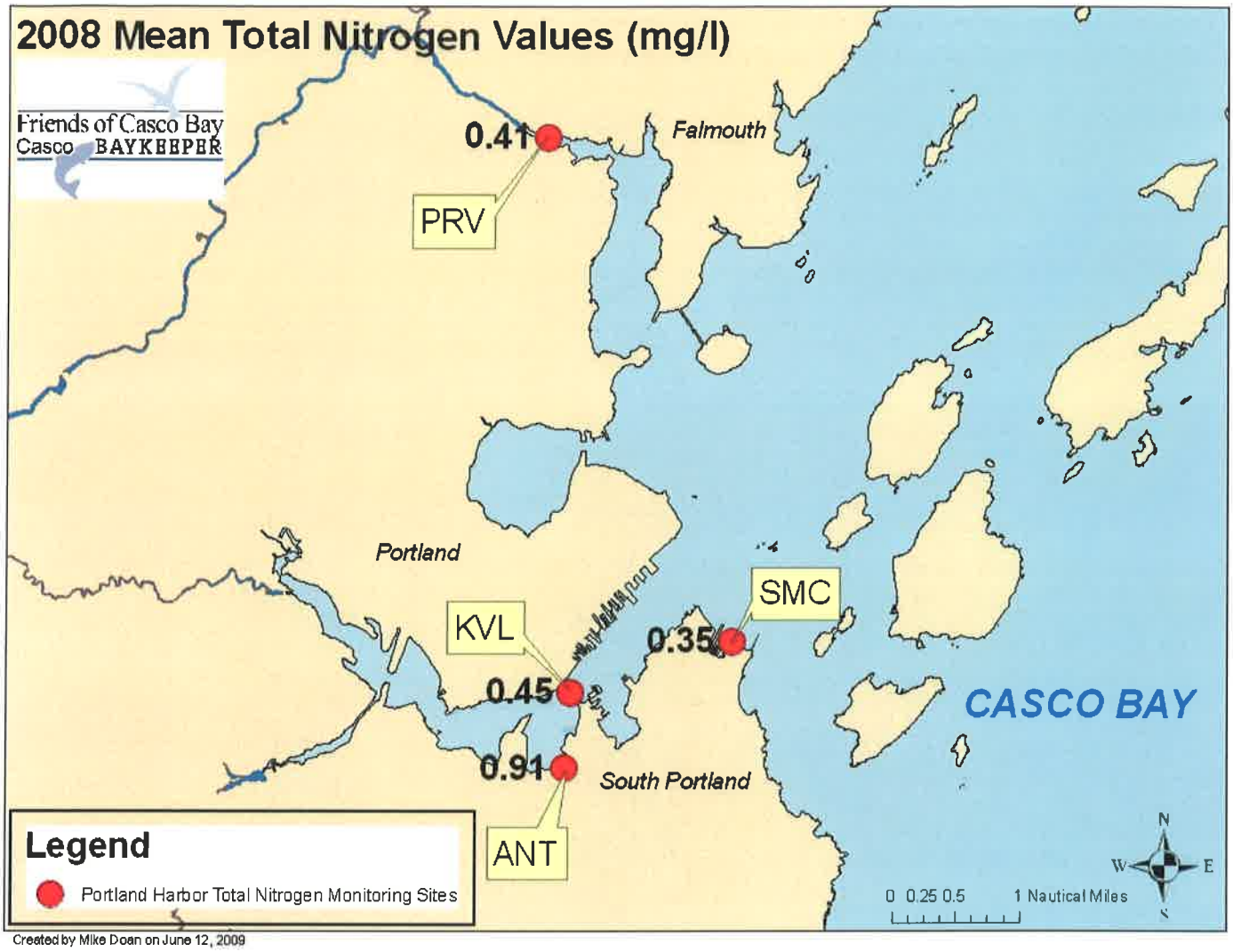
Table 1. Overall Summary Statistics for standard water quality parameters

	Temp	Sal	DO	pH	Secchi Depth	Chl a	Phae
	C	ppt	mg/l	___	m	ug/l	ug/l
Mean	17.37	16.92	9.64	7.76	2.02	0.99	1.04
Max	25.93	30.79	12.26	8.75	4.20	5.08	5.52
Min	8.57	0.03	6.51	6.91	0.70	0.00	0.00
sd	4.27	12.07	1.21	0.37	0.71	0.95	0.98

Table 2. Overall Summary Statistics for Nitrogen

	TN	PO4	Si(OH)4	NH4	NO3+NO2	DIN	DIN
	mg/l	uM	uM	uM	uM	uM	mg/l
Mean	0.54	0.70	15.89	8.60	10.11	18.70	0.26
Max	1.37	9.89	43.00	55.85	68.03	82.72	1.16
Min	0.23	0.01	2.56	1.04	0.22	3.13	0.04
sd	0.29	1.27	9.40	8.06	13.32	18.24	0.26

Figure 1, using data from Table 3.



Total Nitrogen

Mean values for total nitrogen are included in Figure1. Tables 3 and 4 summarize the total nitrogen results by site and month, respectively. The Anthoine Creek site (ANT) had significantly higher total nitrogen concentrations than the other three sites. Anthoine Creek drains into Pleasantdale Cove, which has been covered by green macroalgae in recent years, an indicator of excess nitrogen. The Presumpscot River site (PRV) had concentrations within the range of other northeast rivers. The Southern Maine Community College Pier site (SMC) had total nitrogen concentrations slightly elevated from offshore sites (data not included) but lowest of the four sites in this project. Figure 2 shows the overall monthly mean for total nitrogen and Figure 3 shows the monthly means for total nitrogen broken out by site.

Table 3. Total Nitrogen summary statistics by site

TN (mg/l)

	ANT	KVL	PRV	SMC
Max	1.37	1.13	0.70	0.62
Median	0.92	0.38	0.40	0.32
Min	0.37	0.23	0.30	0.24
Mean	0.91	0.45	0.41	0.35

Table 4. Total Nitrogen summary statistics by month

TN (mg/l)

	May	June	July	August	September	October
Max	1.13	1.04	0.97	1.22	0.96	1.37
Median	0.37	0.40	0.53	0.40	0.40	0.43
Min	0.23	0.24	0.29	0.31	0.26	0.31
Mean	0.51	0.48	0.55	0.60	0.50	0.60

Figure 2.

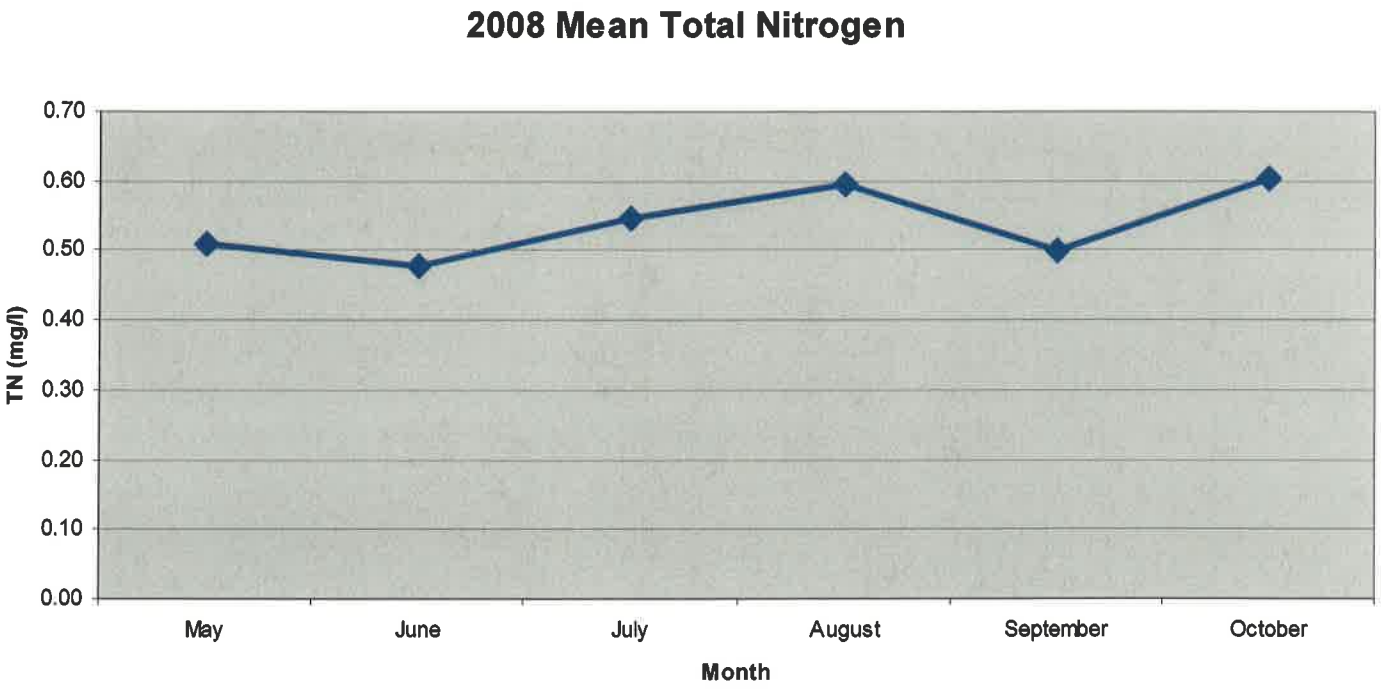
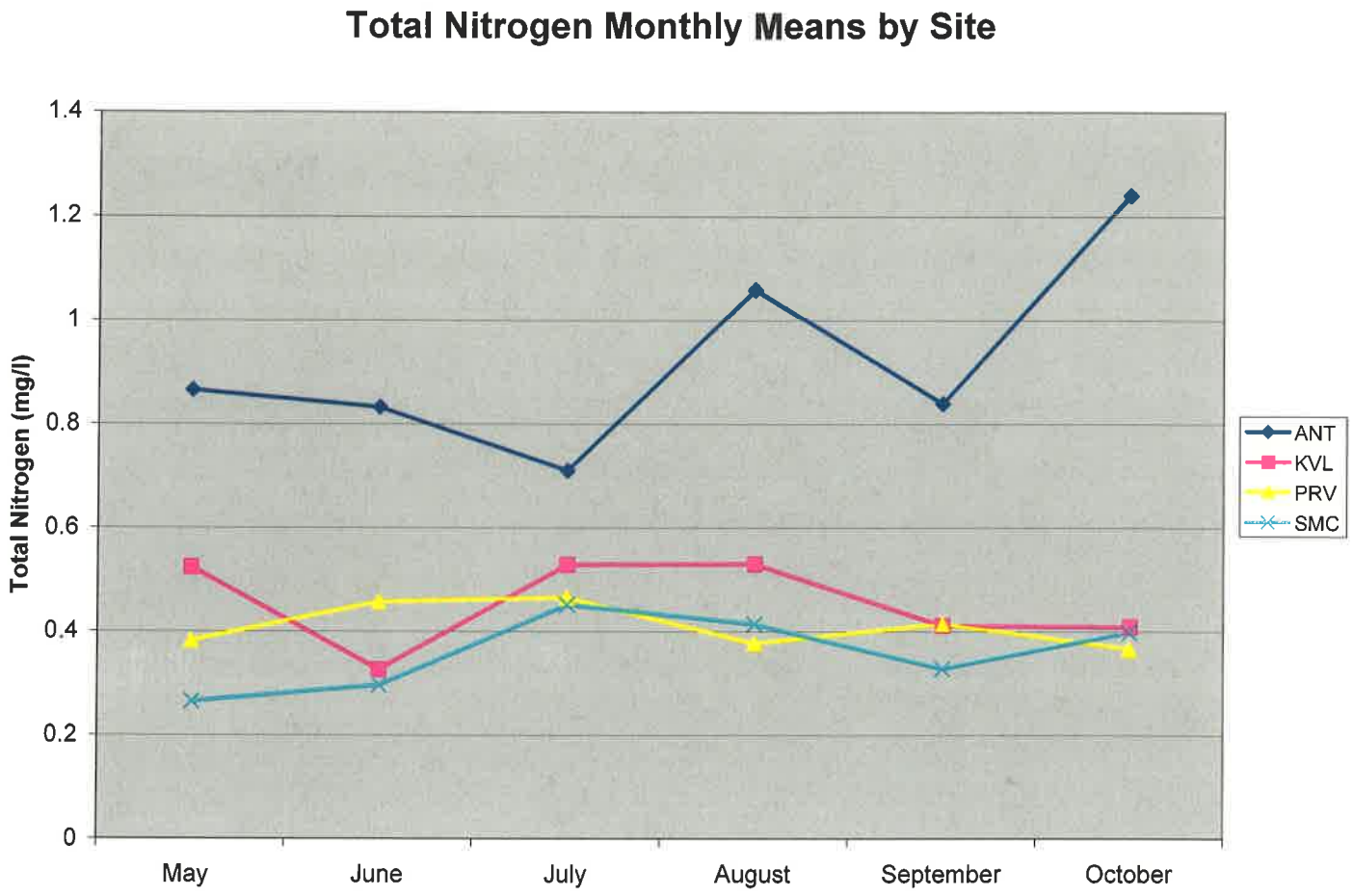


Figure 3.



Dissolved Inorganic Nitrogen

The summary statistics for dissolved inorganic nitrogen are presented in Tables 5 and 6. Once again, the Anthoine Creek site (ANT) had concentrations significantly higher than the other sites, while values at SMC were the lowest of the four sites. The largest component of the dissolved inorganic nitrogen pool at KVL and SMC was ammonium, while at ANT and PRV it was nitrate+nitrite. ANT and PRV both have lower salinities and greater fresh water influence than KVL and SMC. The relatively high ammonium concentrations at KVL might be explained by the proximity to a sewage treatment plant outfall. Figure 4 shows the mean dissolved inorganic nitrogen concentrations by month. Figure 5 compares the spatial trends of mean total nitrogen to mean dissolved inorganic nitrogen. There is a strong correlation between the two parameters.

Table 5. Dissolved Inorganic Nitrogen summary statistics by site

DIN (uM)

	ANT	KVL	PRV	SMC
Max	82.72	59.90	22.55	11.81
Median	45.44	9.25	11.42	6.09
Min	11.37	5.09	5.56	3.13
Mean	43.92	12.29	11.97	6.61

Table 6. Dissolved Inorganic Nitrogen summary statistics by month

DIN (uM)

	May	June	July	August	September	October
Max	59.90	70.56	49.62	61.72	51.55	82.72
Median	10.18	11.91	11.29	10.87	7.35	8.99
Min	4.18	3.81	3.13	5.09	3.15	5.69
Mean	20.16	19.15	15.51	19.62	16.67	22.94

Figure 4.

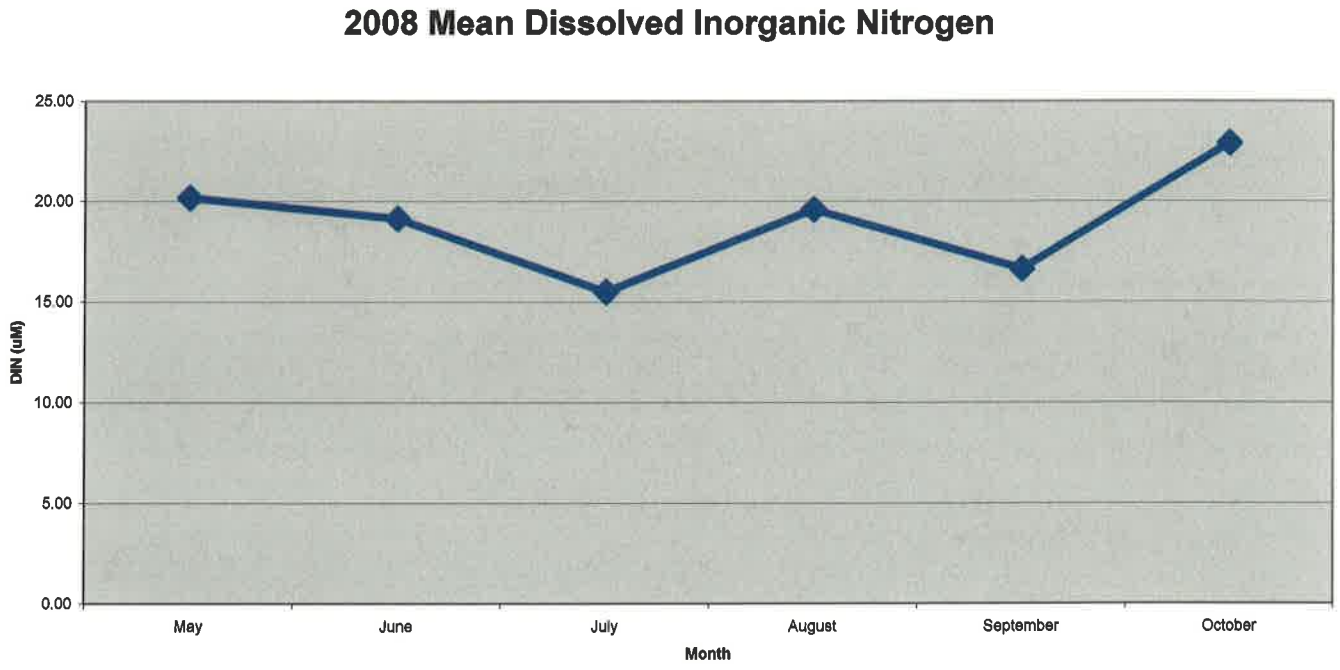
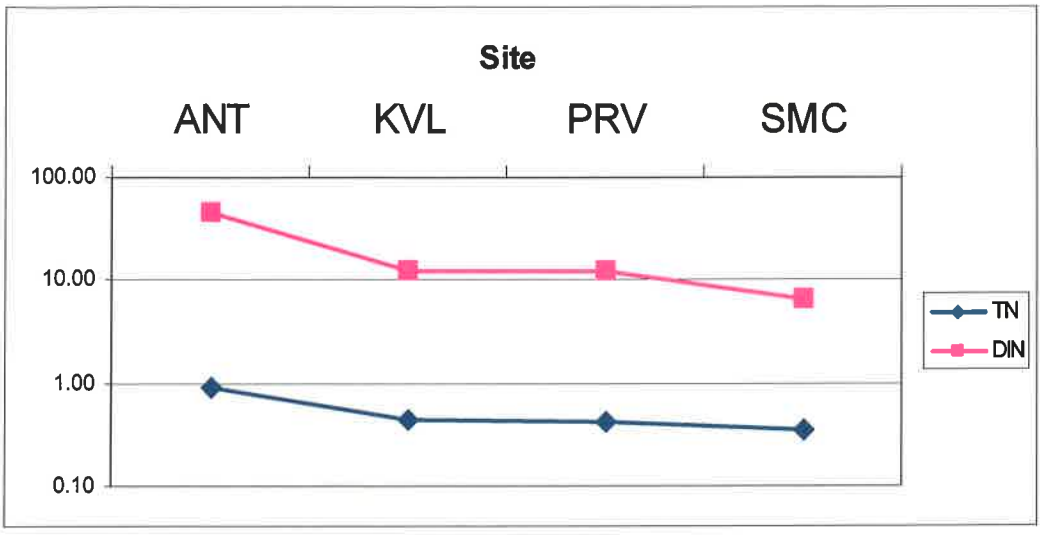


Figure 5.



Chlorophyll

The summary statistics for chlorophyll are presented in Tables 7 and 8. Overall, chlorophyll values were low and did not correlate well to either total nitrogen or dissolved inorganic nitrogen. SMC had both the highest mean and maximum values, even though that site generally had the lowest dissolved inorganic and total nitrogen concentrations.

Table 7. Chlorophyll Summary Statistics by Site

Chl (ug/l)

	ANT	KVL	PRV	SMC
Max	1.69	3.38	1.69	5.08
Median	0.85	0.85	0.85	1.27
Min	0.00	0.00	0.00	0.00
Mean	0.57	0.96	0.75	1.70

Table 8. Chlorophyll Summary Statistics by Month

Chl (ug/l)

	May	June	July	August	September	October
Max	3.38	0.85	3.38	5.08	3.72	1.69
Median	0.85	0.00	0.85	0.85	0.85	0.85
Min	0.00	0.00	0.00	0.00	0.00	0.00
Mean	1.11	0.37	1.05	1.32	1.25	0.78

Site	Date	Month	Year	Sample Depth (m)	Water Depth (m)	Temp C	Sal ppt	DO mg/l
ANT	05/06/08	May	2008	surface	0.4	10.5	5.1	9.5
ANT	05/15/08	May	2008	surface	0.2	15.0	15.0	10.6
ANT	05/21/08	May	2008	surface	0.3	14.0	13.4	9.7
ANT	05/28/08	May	2008	surface	0.3	19.5	11.0	11.8
ANT	06/04/08	June	2008	surface	0.3	15.7	5.9	8.7
ANT	06/10/08	June	2008	surface	0.2	25.9	18.7	6.5
ANT	06/18/08	June	2008	surface	0.3	16.4	29.7	9.7
ANT	06/25/08	June	2008	surface	0.2	25.4	9.0	7.9
ANT	07/03/08	July	2008	surface	0.3	22.6	16.5	
ANT	07/09/08	July	2008	surface	0.3	24.8	17.1	8.7
ANT	07/17/08	July	2008	surface	0.2	23.9	19.4	9.3
ANT	07/22/08	July	2008	surface	0.2	24.1	14.8	7.6
ANT	07/31/08	July	2008	surface	0.1	22.2	26.0	8.5
ANT	08/05/08	August	2008	surface	0.2	21.4	6.2	9.1
ANT	08/15/08	August	2008	surface	0.8	22.4	13.4	8.5
ANT	08/19/08	August	2008	surface	0.3	20.0	8.3	7.4
ANT	08/26/08	August	2008	surface	0.1	24.4	5.5	8.7
ANT	09/04/08	September	2008	surface	0.2	20.4	20.0	7.6
ANT	09/11/08	September	2008	surface	0.4	18.9	4.6	9.8
ANT	09/17/08	September	2008	surface	0.2	14.9	10.8	8.8
ANT	09/23/08	September	2008	surface	0.2	14.9	15.1	8.6
ANT	10/02/08	October	2008	surface	0.3	15.8	2.4	8.8
ANT	10/08/08	October	2008	surface	0.2	16.4	4.4	10.4
ANT	10/17/08	October	2008	surface	0.4	11.7	15.8	9.6
KVL	05/06/08	May	2008	surface	1.0	10.0	23.3	10.6
KVL	05/15/08	May	2008	surface	1.0	13.9	26.1	10.5
KVL	05/21/08	May	2008	surface	7.6	8.6	29.7	10.6
KVL	05/28/08	May	2008	surface	2.8	12.6	28.7	11.8
KVL	06/04/08	June	2008	surface	6.1	12.2	30.0	9.8
KVL	06/10/08	June	2008	surface	7.1	14.0	30.0	10.7
KVL	06/18/08	June	2008	surface	7.9	14.4	29.8	10.9
KVL	06/25/08	June	2008	surface	7.1	15.9	29.4	8.8
KVL	07/03/08	July	2008	surface	4.9	17.6	28.8	
KVL	07/09/08	July	2008	surface	4.9	19.1	29.8	10.5
KVL	07/17/08	July	2008	surface	5.7	18.4	28.4	9.5
KVL	07/22/08	July	2008	surface	6.8	16.8	28.4	8.5
KVL	07/31/08	July	2008	surface	6.9	18.0	29.5	8.7
KVL	08/05/08	August	2008	surface	5.5	18.3	27.0	8.3
KVL	08/15/08	August	2008	surface	6.8	20.6	23.1	8.7
KVL	08/19/08	August	2008	surface	5.7	16.9	26.7	8.2
KVL	08/26/08	August	2008	surface	6.4	18.0	27.5	10.1
KVL	09/04/08	September	2008	surface	6.1	16.2	30.8	10.0
KVL	09/11/08	September	2008	surface	5.1	17.4	25.7	8.3
KVL	09/17/08	September	2008	surface	6.4	15.3	27.6	8.9
KVL	09/23/08	September	2008	surface	4.9	15.1	27.6	9.4
KVL	10/02/08	October	2008	surface	5.2	14.8	25.3	7.9
KVL	10/08/08	October	2008	surface	5.1	13.8	26.9	9.6
KVL	10/17/08	October	2008	surface	6.4	12.2	29.6	9.3
PRV	05/06/08	May	2008	surface	1.2	8.9	0.1	12.3
PRV	05/15/08	May	2008	surface	0.4	12.7	0.1	11.7

PRV	05/21/08	May	2008	surface	5.2	13.1	0.0	11.9
PRV	05/28/08	May	2008	surface	2.2	16.8	0.1	11.8
PRV	06/04/08	June	2008	surface	1.1	17.2	1.0	9.9
PRV	06/10/08	June	2008	surface	3.2	21.7	0.1	9.4
PRV	06/18/08	June	2008	surface	4.0	19.5	0.1	10.0
PRV	06/25/08	June	2008	surface	4.2	21.0	0.1	10.1
PRV	07/03/08	July	2008	surface	1.5	23.9	0.0	
PRV	07/09/08	July	2008	surface	2.5	25.1	0.5	9.5
PRV	07/17/08	July	2008	surface	2.9	25.5	0.1	8.5
PRV	07/22/08	July	2008	surface	4.1	23.9	0.0	8.6
PRV	07/31/08	July	2008	surface	4.2	24.6	0.1	8.7
PRV	08/05/08	August	2008	surface	4.1	22.8	0.0	9.5
PRV	08/15/08	August	2008	surface	3.0	21.8	0.0	9.6
PRV	08/19/08	August	2008	surface	4.8	22.7	0.0	9.0
PRV	08/26/08	August	2008	surface	4.1	22.5	0.1	9.3
PRV	09/04/08	September	2008	surface	3.6	22.2	0.1	9.9
PRV	09/11/08	September	2008	surface	4.1	19.8	0.0	10.3
PRV	09/17/08	September	2008	surface	3.4	19.4	0.0	10.6
PRV	09/23/08	September	2008	surface	3.3	17.3	0.1	10.1
PRV	10/02/08	October	2008	surface	3.9	16.8	0.0	10.1
PRV	10/08/08	October	2008	surface	2.9	14.5	0.0	11.7
PRV	10/17/08	October	2008	surface	3.4	14.4	0.0	11.0
SMC	05/06/08	May	2008	surface	1.8	9.2	19.8	11.0
SMC	05/15/08	May	2008	surface	1.6	9.8	27.4	11.2
SMC	05/21/08	May	2008	surface	3.9	9.7	29.0	11.2
SMC	05/28/08	May	2008	surface	2.2	11.9	28.5	11.8
SMC	06/04/08	June	2008	surface	2.0	12.6	29.4	9.8
SMC	06/10/08	June	2008	surface	4.2	14.4	29.3	10.9
SMC	06/18/08	June	2008	surface	4.0	14.7	29.6	11.9
SMC	06/25/08	June	2008	surface	3.8	17.0	28.9	10.0
SMC	07/03/08	July	2008	surface	2.1	17.2	28.5	
SMC	07/09/08	July	2008	surface	1.6	17.7	29.1	11.8
SMC	07/17/08	July	2008	surface	2.0	17.5	28.6	10.1
SMC	07/22/08	July	2008	surface	4.1	17.8	27.4	8.1
SMC	07/31/08	July	2008	surface	4.1	18.8	28.3	8.7
SMC	08/05/08	August	2008	surface	3.1	19.5	24.4	8.8
SMC	08/15/08	August	2008	surface	2.9	19.3	22.5	9.9
SMC	08/19/08	August	2008	surface	3.3	17.5	23.8	8.2
SMC	08/26/08	August	2008	surface	3.1	17.4	27.3	10.8
SMC	09/04/08	September	2008	surface	3.6	17.2	30.3	10.1
SMC	09/11/08	September	2008	surface	3.8	17.2	25.8	9.1
SMC	09/17/08	September	2008	surface	3.8	15.9	25.6	8.2
SMC	09/23/08	September	2008	surface	2.0	15.0	26.1	9.7
SMC	10/02/08	October	2008	surface	3.9	14.9	22.5	7.9
SMC	10/08/08	October	2008	surface	2.1	13.7	23.3	9.8
SMC	10/17/08	October	2008	surface	4.0	12.2	28.5	9.4

Secchi Depth (m)	pH	Chl a ug/l	Phae ug/l	TN mg/l	NO3+NO2 uM	Si(OH)4 uM	NH4 uM	PO4 uM
bsv	6.9	0.0	1.5	1.0	49.1	21.4	6.5	0.4
bsv	7.8	0.8	0.6	0.8	26.1	34.8	4.7	0.3
bsv	7.2	0.0	1.0	0.9	41.1	34.0	6.0	0.3
bsv	7.3	0.8	1.1	0.8	30.2	30.1	6.7	0.2
bsv	7.4	0.0	2.5	1.0	18.8	20.3	18.7	0.3
bsv	7.2	0.0	1.5	1.0	31.3	26.0	39.3	0.3
bsv	7.3	0.0	1.5	0.4	0.6	10.3	13.1	0.6
bsv	7.2	0.0	2.0	0.9	28.7	17.6	23.4	0.5
bsv	8.1	0.0	2.0	1.0	27.9	32.7	21.7	0.3
bsv	7.1	0.0	2.5	0.8	24.0	26.0	19.8	0.5
bsv	8.0	0.0	1.5	0.5	8.9	29.4	5.2	0.0
bsv	7.2	1.7	1.3	0.5	22.2	23.8	17.4	0.3
bsv	7.6	0.0	2.0	0.0	7.1	43.0	4.3	0.4
bsv	7.1	0.8	3.1	1.2	41.9	19.5	19.8	0.1
bsv	7.8	0.8	2.6	0.9	23.7	20.7	13.2	0.4
bsv	7.6	1.7	1.3	1.1	37.2	24.3	18.6	0.0
bsv	7.6	0.8	1.6	1.0	16.4	18.0	17.9	0.2
bsv	7.7	0.8	1.6	0.8	9.9	31.3	11.3	0.0
bsv	7.5	0.9	1.8	0.8	34.2	22.6	15.5	0.7
bsv	7.6	0.8	0.6	1.0	34.1	29.9	17.5	0.4
bsv	7.4	0.8	0.6	0.8	27.6	24.8	14.0	0.1
bsv	7.1	0.8	1.6	1.4	68.0	41.9	14.7	1.5
bsv	7.6	0.0	2.0	1.3	41.5	37.6	17.2	1.4
bsv	7.2	1.7	1.8	1.0	35.6	27.3	21.6	0.2
bsv	7.3	1.7	0.3	0.3	3.3	20.1	3.4	0.4
bsv	7.9	1.7	4.7	0.4	3.0	13.6	6.5	0.6
4.2	7.9	0.0	1.0	0.2	3.7	7.0	2.8	0.1
6.5	7.9	0.8	0.6	1.1	4.1	10.3	55.9	9.9
2.1	7.5	0.8	1.1	0.4	3.3	6.9	6.7	0.5
3.1	7.8	0.0	1.0	0.3	0.2	5.6	8.9	0.1
2.5	7.9	0.8	0.6	0.3	0.7	6.7	9.5	0.3
2.7	7.7	0.0	2.0	0.4	0.6	7.8	7.8	0.3
2.4	7.7	0.8	1.6	0.5	2.1	11.7	20.8	4.5
2.4	7.7	0.8	1.6	0.5	0.3	9.1	7.6	1.4
2.8	8.0	0.8	1.1	0.0	0.5	8.4	9.5	3.4
2.4	8.0	1.7	0.3	0.1	0.6	12.1	5.9	0.4
2.3	7.8	0.8	0.6	0.0	1.2	15.6	8.8	5.0
1.9	7.8	0.8	1.6	0.4	2.6	19.1	7.4	0.9
2.4	7.9	0.8	1.6	1.0	3.5	30.4	17.7	3.0
2.2	7.8	1.7	1.3	0.3	3.8	15.2	6.5	0.2
2.2	8.0	0.8	1.6	0.4	1.8	10.0	3.3	1.1
2.4	8.0	3.4	1.6	0.3	2.2	5.7	4.1	0.1
2.4	7.9	0.9	0.7	0.7	8.7	13.9	11.6	2.1
2.7	7.9	1.7	0.2	0.3	1.9	16.0	4.6	0.9
2.7	7.6	0.8	0.1	0.3	3.7	14.5	4.1	0.8
2.1	7.5	0.0	2.0	0.4	2.2	24.1	6.3	0.2
3.1	7.6	0.0	1.0	0.5	7.5	22.2	7.2	2.7
2.3	7.6	0.8	1.1	0.3	2.3	9.9	4.6	0.4
bsv	8.4	1.7	0.3	0.3	8.7	9.7	1.2	0.0
bsv	8.6	1.7	0.2	0.4	9.3	8.1	1.2	0.1

2.8	8.8	0.8	0.6	0.3	10.6	15.3	1.9	0.4
3.5	8.6	1.7	0.3	0.5	12.7	30.0	5.5	1.2
0.8	8.4	0.8	1.1	0.4	10.4	7.7	4.5	0.6
1.8	8.3	0.8	0.1	0.5	12.1	11.5	10.5	0.7
1.5	8.5	0.0	1.5	0.5	16.1	7.7	5.6	0.7
1.1	8.6	0.0	1.5	0.5	9.0	12.9	5.2	0.5
0.7	8.0	1.7	0.8	0.4	9.7	6.8	3.6	0.4
1.4	7.3	0.8	1.6	0.5	7.5	8.1	5.2	0.5
0.8	7.4	0.8	0.6	0.4	5.7	4.4	3.8	0.5
1.7	7.5	0.8	0.6	0.7	6.2	10.5	6.2	0.5
0.8	7.5	0.8	0.1	0.4	5.5	10.2	7.0	0.5
1.7	7.2	0.0	1.5	0.5	6.1	10.1	7.7	0.2
1.0	7.8	0.0	1.5	0.4	3.9	8.1	2.8	0.4
1.2	7.6	0.0	1.5	0.3	4.2	21.3	3.2	0.3
1.0	7.7	0.8	0.1	0.4	3.6	7.0	6.9	0.2
2.2	8.0	0.8	0.1	0.6	14.8	10.1	4.4	0.2
1.2	8.4	0.9	0.7	0.4	4.4	32.2	3.0	0.0
1.9	7.8	0.8	0.6	0.3	2.5	17.3	3.1	0.2
2.1	7.5	0.0	1.0	0.4	3.6	8.3	3.7	0.2
1.4	7.5	0.0	1.5	0.4	2.4	20.8	4.2	0.3
2.1	7.5	0.8	0.1	0.4	4.5	11.9	3.6	0.0
0.8	7.7	0.8	0.1	0.4	7.1	9.7	3.2	0.4
bsv	7.9	0.8	0.6	0.3	3.6	23.1	2.1	0.3
bsv	8.0	1.7	0.7	0.3	2.5	11.5	1.8	0.1
3.5	7.9	0.0	0.5	0.2	3.2	7.6	1.0	0.0
2.8	8.1	3.4	1.4	0.3	2.4	2.6	1.7	0.4
bsv	7.6	0.8	0.1	0.3	1.8	3.4	2.1	0.0
1.9	7.8	0.8	0.4	0.2	0.4	6.4	5.3	0.0
2.2	7.7	0.8	0.1	0.3	0.6	5.5	4.5	0.1
2.2	7.7	0.0	1.5	0.4	0.6	7.1	6.7	0.5
1.4	8.0	3.4	5.5	0.6	0.6	7.9	7.0	1.1
bsv	7.9	2.5	0.9	0.3	0.6	5.5	2.5	0.7
bsv	8.2	1.7	0.3	0.0	0.3	7.8	4.7	0.8
2.6	8.1	0.8	1.1	0.0	1.0	12.8	6.3	0.4
2.6	7.9	0.8	0.6	0.0	0.8	8.9	10.5	0.0
1.6	7.9	0.8	1.1	0.5	2.4	19.0	9.4	0.5
2.0	8.1	3.4	0.6	0.4	1.7	22.5	5.4	1.1
2.1	7.9	2.5	0.1	0.4	2.1	11.9	9.2	1.0
2.1	8.2	5.1	0.9	0.4	1.8	4.7	8.2	0.3
2.7	8.1	1.7	1.3	0.3	0.7	3.6	2.5	0.3
2.0	8.0	3.7	0.6	0.4	1.9	12.6	5.5	0.6
2.4	8.1	0.8	0.6	0.3	1.0	10.4	4.6	0.0
bsv	7.8	0.8	0.6	0.3	3.8	14.3	2.7	0.4
1.9	7.6	1.7	0.7	0.4	2.1	20.2	7.4	0.2
bsv	7.8	0.8	0.4	0.4	2.0	18.9	4.5	0.2
2.5	7.7	1.7	0.2	0.3	2.6	14.5	3.1	0.6

DIN uM	DIN mg/l	NH4/DIN	DIN/PO4	DIN/TN
55.6	0.8	0.1	150.3	0.8
30.9	0.4	0.2	110.2	0.5
47.1	0.7	0.1	162.4	0.8
37.0	0.5	0.2	176.0	0.6
37.5	0.5	0.5	129.2	0.5
70.6	1.0	0.6	252.0	0.9
13.6	0.2	1.0	22.3	0.5
52.1	0.7	0.4	104.2	0.8
49.6	0.7	0.4	160.1	0.7
43.8	0.6	0.5	91.2	0.7
14.1	0.2	0.4	470.0	0.4
39.7	0.6	0.4	158.6	1.0
11.4	0.2	0.4	27.7	3.7
61.7	0.9	0.3	617.2	0.7
36.9	0.5	0.4	99.7	0.6
55.8	0.8	0.3	2790.5	0.7
34.3	0.5	0.5	190.7	0.5
21.2	0.3	0.5	1359.0	0.4
49.6	0.7	0.3	73.0	0.9
51.6	0.7	0.3	139.3	0.8
41.6	0.6	0.3	694.0	0.7
82.7	1.2	0.2	53.7	0.8
58.7	0.8	0.3	43.5	0.6
57.2	0.8	0.4	318.0	0.8
6.7	0.1	0.5	16.0	0.3
9.4	0.1	0.7	15.2	0.3
6.5	0.1	0.4	65.3	0.4
59.9	0.8	0.9	6.1	0.7
9.9	0.1	0.7	19.4	0.4
9.1	0.1	1.0	82.6	0.5
10.2	0.1	0.9	37.7	0.5
8.4	0.1	0.9	25.4	0.3
22.8	0.3	0.9	5.1	0.6
7.9	0.1	1.0	5.9	0.2
10.0	0.1	1.0	2.9	3.0
6.5	0.1	0.9	16.0	1.2
10.0	0.1	0.9	2.0	3.7
10.1	0.1	0.7	11.2	0.4
21.2	0.3	0.8	7.0	0.3
10.3	0.1	0.6	44.8	0.4
5.1	0.1	0.6	4.7	0.2
6.3	0.1	0.7	48.3	0.3
20.3	0.3	0.6	9.8	0.4
6.5	0.1	0.7	7.0	0.3
7.8	0.1	0.5	10.4	0.4
8.5	0.1	0.7	38.8	0.3
14.7	0.2	0.5	5.4	0.4
6.9	0.1	0.7	16.1	0.3
9.9	0.1	0.1	993.0	0.4
10.4	0.1	0.1	80.3	0.4

12.5	0.2	0.2	31.3	0.5
18.2	0.3	0.3	15.1	0.5
14.9	0.2	0.3	23.7	0.5
22.6	0.3	0.5	31.8	0.7
21.7	0.3	0.3	30.5	0.6
14.2	0.2	0.4	26.3	0.4
13.3	0.2	0.3	38.0	0.5
12.7	0.2	0.4	23.9	0.4
9.5	0.1	0.4	20.7	0.3
12.4	0.2	0.5	24.8	0.2
12.5	0.2	0.6	27.1	0.5
13.8	0.2	0.6	81.0	0.4
6.7	0.1	0.4	16.3	0.3
7.4	0.1	0.4	27.4	0.3
10.5	0.1	0.7	45.4	0.4
19.2	0.3	0.2	91.3	0.5
7.4	0.1	0.4	662.2	0.2
5.6	0.1	0.6	34.8	0.3
7.3	0.1	0.5	38.2	0.3
6.5	0.1	0.6	19.1	0.3
8.2	0.1	0.4	204.3	0.3
10.3	0.1	0.3	29.3	0.4
5.7	0.1	0.4	17.8	0.3
4.3	0.1	0.4	54.3	0.2
4.3	0.1	0.2	425.0	0.2
4.2	0.1	0.4	11.9	0.2
3.8	0.1	0.5	293.1	0.2
5.7	0.1	0.9	469.4	0.3
5.1	0.1	0.9	46.5	0.3
7.2	0.1	0.9	15.0	0.2
7.5	0.1	0.9	6.7	0.2
3.1	0.0	0.8	4.6	0.2
5.0	0.1	0.9	6.1	1.8
7.3	0.1	0.9	18.2	2.4
11.2	0.2	0.9	1029.4	4.0
11.8	0.2	0.8	25.1	0.3
7.1	0.1	0.8	6.5	0.3
11.3	0.2	0.8	11.8	0.4
10.0	0.1	0.8	32.4	0.4
3.2	0.0	0.8	9.5	0.1
7.4	0.1	0.7	11.7	0.2
5.6	0.1	0.8	513.9	0.3
6.5	0.1	0.4	17.5	0.3
9.4	0.1	0.8	55.5	0.3
6.5	0.1	0.7	27.0	0.2
5.7	0.1	0.5	9.3	0.2